HERAFLEX E 7722 1000 NT

TPC — RadiciGroup High Performance Polymers

Product Texts

TPC-ET Thermoplastic Elastomer. High Modulus, Nominal Shore D/15s 69. Natural colou

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**1350**	MPa	ISO 527
[C] Yield stress	**48**	MPa	ISO 527
[C] Yield strain	**15**	%	ISO 527
[C] Nominal strain at break	**>50**	%	ISO 527
[C] Charpy notched impact strength, +23°C	**10**	kJ/m²	ISO 179/1eA
[C] Stress at 10% elongation	**45**	MPa	ISO 527
[C] Stress at 100% elongation	**32**	MPa	ISO 527
[C] Tear strength	**249**	kN/m	ISO 34-1
[C] Abrasion resistance	**39**	mm³	ISO 4649
[C] Shore D hardness	**69**	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**219**	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**60**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**115**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**210**	°C	ISO 306

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**1E13**	Ohm*m	IEC 62631-3-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.1**	%	Sim. to ISO 62
[C] Density	**1250**	kg/m³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**110**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.05**	%	-
Melt temperature	**240 - 250**	°C	-
Mold temperature	**30 - 50**	°C	-

Characteristics

Processing

Injection Molding, Profile Extrusion

Delivery form

Granules, Natural Color

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.05%. Typical conditions with a desiccant drier: temperature 110 ° C, dew point -30 ° C or below, time 2-4 h or more. Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

Injection Molding Processing Parameters

Melt Temperature	Mold Temperature	Injection Speed
240 - 250°C	30 - 50°C	medium